

CLAIMS

1. A method of producing a sheet of coated substrate, comprising:
providing a substrate;
5 providing a solution or dispersion of a first material that adheres to the substrate mixed
with an amine terminated material;
coating the provided substrate with the solution; and
drying the substrate coated with the solution to form a solid coating thereon.
- 10 2. A method according to claim 1 wherein the amine terminated material is a diamine
terminated material.
3. A method according to claim 1 wherein the amine terminated material is a monoamine
terminated material.
- 15 4. A method according to claim 1 wherein the amine terminated material is a tri-amine
terminated material.
5. A method according to claim 2 wherein the amine terminated material is diamine poly
20 (propylene oxide).
6. A method according to claim 3 wherein the amine terminated material is mono-amine
poly (propylene oxide).
- 25 7. A method according to claim 4 wherein the amine terminated material is tri-amine poly
(propylene oxide).
8. A method according to any of the preceding claims wherein the first material comprises
polyvinyl alcohol.
- 30 9. A method according to any of claims 1-7 wherein the first material comprises a styrene-
butadiene copolymer.

10. A method according to any of claims 1-7 wherein the first material comprises an acrylic ester copolymer.
11. A method according to any of the preceding claims wherein the substrate comprises PET.
12. A method according to any of claims 1-10 wherein the substrate comprises polypropylene.
13. A method according to any of the preceding claims wherein the solution or dispersion also comprises sodium hydroxide.
14. A method according to any of the preceding claims wherein the dry weight of amine terminated material is between 5 and 30% of the dry weight of the coating.
15. A method according to claim 14 wherein the dry weight of amine terminated material is 10% or more of the dry weight of the coating.
16. A method according to claim 14 wherein the dry weight of amine terminated material is 15% or more of the dry weight of the coating.
17. A method according to any of claims 14-16 wherein the dry weight of amine terminated material is 25% or less of the dry weight of the coating.
18. A coated substrate produced according to the method of any of the preceding claims.
19. A printed sheet comprising:
a coated sheet produced according to the method of any of claims 1-18; and
an image printed on the sheet.
20. A printed sheet according to claim 19 wherein the image is printed using a liquid toner process.

21. A method of printing comprising:
providing a coated substrate according to claim 18 or produced according to any of
claims 1-17;
printing an image on the coating using a liquid toner; and
5 fixing the image to the coated substrate,
wherein the adhesion of the liquid toner image to the substrate is improved over its
adhesion to a similarly coated substrate in which the coating does not include the amine
terminated material.
- 10 22. A printing method according to claim 21 wherein the substrate and the pigmented
particles are both acidic.
23. A printing method according to claim 21 or claim 22 wherein the coating forms a
substantially smooth surface.
- 15 24. A printing method according to any of claims 21-23 wherein the substrate is a CD or
DVD disk.